

OHA - DWS

Membrane Filter Monthly Operating Report

County: **Clatsop**

System Name: **City of Warrenton**

Month/Year: **Dec-2024**

PWS ID#: 41 - **00932**

Minimum test pressure **applied**: **20** psi

Plant ID: WTP - _____

Minimum test pressure **req'd**: **19** psi

(e.g., "A")

DIT = Direct Integrity Test on filter(s) [Yes, No, or "off" if all filters are offline] ⇌

PDR = Pressure Decay Rate

LRC = Log Removal Credit

Day	CFE Daily Turbidity [NTU]	Highest CFE* [NTU]	Highest IFE [NTU]	Highest PDR of day [psi/min]	Lowest LRV _{ambient} of day [log removal]	DIT Daily [Y/N] or "off"
				PDR_{Max} [psi/min]	LRC [log removal]	
				0.500	4.00	
1	0.038	0.03754	0.040	0.30	4.64	y
2	0.037	0.03746	0.046	0.30	4.75	y
3	0.036	0.03571	0.048	0.31	4.65	y
4	0.037	0.03655	0.052	0.30	4.50	y
5	0.037	0.03672	0.056	0.30	4.71	y
6	0.037	0.03685	0.079	0.29	4.65	y
7	0.040	0.04021	0.059	0.29	4.57	y
8	0.042	0.04221	0.053	0.29	4.59	y
9	0.041	0.04136	0.082	0.29	4.61	y
10	0.040	0.04022	0.062	0.37	4.59	y
11	0.038	0.03777	0.063	0.31	4.39	y
12	0.040	0.03975	0.057	0.29	4.48	y
13	0.044	0.04433	0.055	0.34	4.60	y
14	0.034	0.03434	0.060	0.31	4.63	y
15	0.040	0.04029	0.049	0.39	4.51	y
16	0.041	0.04062	0.080	0.30	4.51	y
17	0.040	0.0398	0.070	0.31	4.53	y
18	0.035	0.03466	0.056	0.31	4.60	y
19	0.032	0.03197	0.052	0.31	4.31	y
20	0.033	0.03304	0.082	0.31	4.62	y
21	0.035	0.03525	0.092	0.31	4.50	y
22	0.033	0.03258	0.035	0.32	4.64	y
23	0.033	0.0325	0.029	0.31	4.55	y
24	0.032	0.0322	0.029	0.31	4.61	y
25	0.033	0.03273	0.029	0.33	4.39	y
26	0.035	0.03456	0.029	0.31	4.60	y
27	0.039	0.03945	0.032	0.32	4.59	y
28	0.043	0.0425	0.031	0.32	4.51	y
29	0.034	0.03373	0.030	0.32	4.47	y
30	0.033	0.03342	0.031	0.32	4.56	y
31	0.033	0.03345	0.033	0.32	4.55	y

Compliance summary (operator to complete any blank fields)

95% of daily turbidity readings ≤ 1 NTU? [Y/N]	All turbidity readings ≤ 5 NTU? [Y/N]	All IFE turbidity readings ≤ 0.15 NTU? [Y/N]	Performance std met? [Y/N] ($\text{PDR} \leq \text{PDR}_{\text{Max}}$, $\text{LRV} \geq \text{LRC}$)	DIT Daily?
Yes	Yes	Yes	Yes	Yes
CT's met daily? (p. 2)	All Cl_2 residual at EP $\geq 0.2 \text{ mg/L}$?	$\text{PDR} \leq \text{PDR}_{\text{Max}}$?	$\text{LRV}_{\text{ambient}} \geq \text{LRC}$?	
Yes	Yes	Yes	Yes	

PRINTED NAME:	Dave G Davis	DATE:	1/2/2025
SIGNATURE:		WT CERT #:	T-08549
Notes:		PHONE #:	503-738-7809

Disinfection Monthly Operating ReportSystem Name: **City of Warrenton**PWS ID#: 41 - **00932**

Plant ID : WTP -

0.5Log
Inactivation
Required via
Disinfection

Day	Minimum Cl ₂ Residual at 1 st User (C) * [mg/L = ppm]	Contact Time (T) [minutes]	Actual CT C x T (Formula)	Temp [° C]	pH	Required CT (Formula)	CT Met? * [Yes / No] (Formula)	Peak Hourly Demand Flow [GPM]	Notes (e.g. "Plant Off")
1	1.200	309.701	371.6	7.0	7.31	26.8	YES	852	
2	1.200	304.791	365.7	6.7	7.38	28.2	YES	866	
3	1.200	305.436	366.5	6.3	7.39	29.1	YES	864	
4	1.100	296.029	325.6	6.0	7.42	29.5	YES	892	
5	1.100	308.376	339.2	6.0	7.40	29.3	YES	856	
6	1.100	309.038	339.9	6.0	7.49	30.4	YES	854	
7	1.100	315.462	347.0	6.8	7.36	27.4	YES	837	
8	1.100	313.064	344.4	7.0	7.35	27.0	YES	843	
9	1.100	306.085	336.7	7.0	7.45	27.9	YES	863	
10	1.100	312.725	344.0	6.7	7.53	29.3	YES	844	
11	1.100	303.827	334.2	6.8	7.52	28.9	YES	869	
12	1.200	226.143	271.4	6.9	7.49	28.8	YES	1,167	
13	1.200	189.817	227.8	7.0	7.37	27.5	YES	1,391	
14	1.200	293.916	352.7	7.1	7.25	26.1	YES	898	
15	1.200	302.552	363.1	7.1	7.40	27.6	YES	873	
16	1.200	308.047	369.7	7.1	7.29	26.4	YES	857	
17	1.200	231.035	277.2	7.7	7.32	25.7	YES	1,143	
18	1.100	314.43	345.9	8.2	7.18	23.3	YES	840	
19	1.100	312.048	343.3	8.6	7.17	22.7	YES	846	
20	1.100	312.048	343.3	8.7	7.18	22.7	YES	846	
21	1.100	312.386	343.6	8.8	7.09	21.7	YES	845	
22	1.200	305.113	366.1	8.8	7.01	21.4	YES	865	
23	1.100	303.188	333.5	8.8	7.06	21.7	YES	871	
24	1.100	299.1	329.0	8.8	7.09	21.8	YES	883	
25	1.100	322.159	354.4	8.4	7.22	23.3	YES	819	
26	1.100	312.386	343.6	8.5	7.28	23.7	YES	845	
27	1.100	312.725	344.0	8.5	7.10	22.3	YES	844	
28	1.100	304.791	335.3	8.6	7.23	23.2	YES	866	
29	1.200	293.916	352.7	8.5	7.15	22.9	YES	898	
30	1.100	292.426	321.7	8.3	7.22	23.5	YES	903	
31	1.100	295.422	325.0	7.8	7.22	24.4	YES	894	

* If chlorine concentration at entry point < 0.2 mg/L, or CT not met, notify DWS within 24 hours.

Submit this monthly report by the 10th of following month by

mail: Drinking Water Services
PO Box 14350
Portland, OR 97293-0350

email: dwp.dmce@odhsoha.oregon.gov

fax: 971-673-0458

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Turbidity-Triggered Direct Integrity Test (DIT) Reporting Form

OHA - Drinking Water Services

To be used when IFE exceeds 0.15 NTU, and submitted to OHA-DWS ⁺

Water System Name: City of Warrenton

Water System ID: 00932

[00932 Water System Profile on DataOnline](#)

Treatment Plant ID: WTP-

PDR_{Max} = maximum allowed pressure decay rate for a passing DIT

County: Clatsop

LRC = Log Removal Credit granted for filtration, LRV_{ambient} must be $\geq$ LRC.

Month - Year: Dec-24

Date/Time and membrane unit(s) affected		Pressure Decay Rate (PDR) [^{psi} / _{min}]: 0.50			LRC: 4.00	
Date/Time	Membrane unit/skid/cell ID#	Turbidity level > 0.15 NTU resulting in DIT [NTU]	Corrective action	DIT Re-test Results [^{psi} / _{min}]	Return-to-service turbidity [NTU]	Return-to-service LRV _{ambient} [log]

Monthly Summary

All return to service turbidity readings $\leq$ 0.15 NTU? (Enter Yes or No) $\Rightarrow$

All membrane units removed from service until a DIT passes? (Enter Yes or No) $\Rightarrow$

All return to service LRV_{ambient} $\geq$ LRC? (Enter Yes or No) $\Rightarrow$

Name:

Signature:

Phone #:

Date:

WT Cert #:

⁺ OAR 333-061-0036(5)(d)(C)(iv) states that if indirect integrity monitoring includes turbidity and the filtrate turbidity readings are above 0.15 NTU for a period greater than 15 minutes (i.e., two consecutive 15-minute readings above 0.15 NTU), direct integrity testing in accordance with subparagraphs (5)(d)(B)(i) through (v) of this rule must immediately be performed on the associated membrane unit.

Return by 10th of following month by email, fax, or mail to:

dwp.dmce@odhsoha.oregon.gov; 971-673-0458; or Drinking Water Services, PO Box 14350, Portland, OR 97293-0350

Revised 2/17/2023